



Use Limit Registration Process

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Agenda

- Discussion on Use-Limited Resources Operating Today
- Discussion on Use-Limited Resources Effective 11/1/2018
- Review of Scheduling Coordinator Timelines
- New registration process and validation criteria
 - CIDI Use-Limited Registration Request Required
 - Use Limit Plan Data Template Attachment Examples
 - Use Plan Supporting Documentation

Use-Limited Resources – Operating Today

- **Current** definition: resource that, due to design considerations, environmental restrictions on operations, cyclical requirements, or other non-economic reasons, is unable to operate continuously
- Use-Limited Status offers three benefits:
 - Exempts Resource Adequacy Use-Limited Resource from bid generation (Section 40.6.8(e))
 - Allows Access to “Limit Reached” cards (Annual, Monthly, Short-term, Other)
 - Access to Registered Cost Option for Commitment Costs
- Use-Limited Resources Comprise ~35,000 megawatts of total capacity (~50% of CAISO BAA)

Use-Limited Resources – Effective 11/1/2018

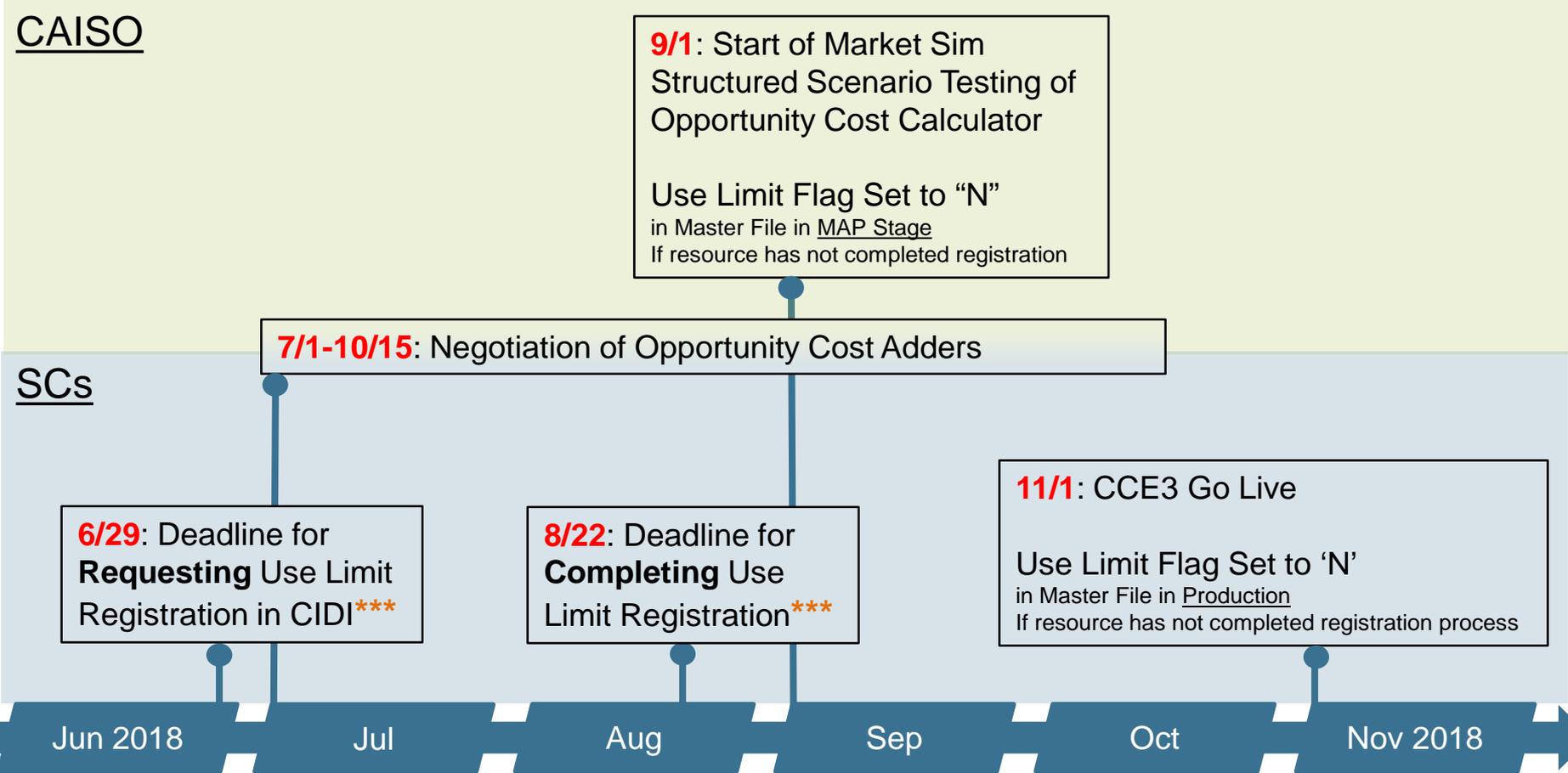
New Use-Limited Definition (30.4.1.1.6.1)

- Has one or more limitations affecting its number of starts, runhours, or Energy output due to (a) design considerations, (b) environmental restrictions, or (c) qualifying contractual limitations
- Process used to dispatch resource cannot recognize limitation(s)
- Ability to select hours of operation not dependent on energy source being available during such hours being outside of resource's control

***Bid generation exemption for VER, hydro, PDR, RDR, & load

STAKEHOLDER TIMELINE

Stakeholder Timeline for Use-Limited Resource Registration



***2018 and 2019 Registration should be requested together with one ULPDT and an affidavit. Otherwise, a separate 2019 renewal request must be complete by 12/1

NEW REGISTRATION PROCESS AND VALIDATION CRITERIA

Initiating Use-Limited Resource Registration

SC must submit a CIDI ticket to demonstrate that resources meet all 3 criteria:

- Criterion 1: resource has a qualifying limitation
- Criterion 2: limitation granularity cannot be recognized by commitment process
- Criterion 3: resource has the ability to select hours of operation (not intermittent)

Criterion 1 - resource has a qualifying limitation

To support Criterion 1, include:

- Written explanation of nature of limitation
- Plan supporting documentation and affidavit for future year(s) stating use limitation definition remains consistent
- Use Limit Plan Data Template
 - effective dates, use limit type, granularity, fixed or dynamic value
- Methodology of translation into starts, runhours, or output

Criterion 1 - resource has a qualifying limitation cont.

- Use limitations are defined by: effective dates, use limit type (e.g. starts), granularity, and fixed or variable nature
- For initial registration, SC should submit ULPDT with records that span 2018 **and** 2019
- Supporting documentation for 2019 is an affidavit stating that the use limit type and granularity are supported by the same documentation as in 2018

Criterion 2 - limitation granularity cannot be recognized by commitment process

- ISO will automatically validate Criterion 2 (no additional information needed in CIDI submission)
- Extremely long start & long start units (start up > 300 min)..
 - **Cannot** register daily use limitations
 - Can register limitations of a month or greater
- Medium, short, or fast start units (start up time ≤ 300 min)..
 - **Can** register daily use limitations
 - Can register limitations of a month or greater

Criterion 3 - resource has the ability to select hours of operation (not intermittent)

- SC CIDI submission must provide a written explanation that the resource seeking Use-Limit status has the technical capability to select hours of operation outside of forced or planned outages.
- Resources unable to operate continuously due to the intermittency of its “fuel” equivalent prime mover are **not** eligible for Use-Limited status

How to “Complete” Use-Limited Resource Registration

- To complete the registration process, SC must:
 1. receive a confirmation from ISO that the registration request was either accepted or rejected AND
 2. submit ULPDT in production.
- If accepted, the ISO will provide SC with the effective date that the USE_LIMIT_FF flag in the GRDT of Master File will be set to ‘Y’ by the ISO. SC should submit registered ULPDT in production within 5 business days of flag being set to ‘Y’.
- If rejected, the resource is not eligible for Use-Limited Resource status and USE_LIMIT_FF flag will be set to ‘N’.

Examples of Use Limit Plan Data Templates (ULPDTs)

SC registration submission must support it has a qualifying limitation

- Use Limit Registration process requires attaching the Use Limit Plan Data Template to show proposed values for registering use limitations to the request
 - **Attach as supporting documentation:**
 - <http://www.caiso.com/Documents/UseLimitPlanDataTemplate.xls>
- Resource Adequacy obligation under Section 40.6.4.2 Use Plan of tariff is separate from this process
 - **Do not attach as supporting documentation:**
 - http://www.caiso.com/Documents/Registration_UsePlanTemplate_Use-LimitedResources.xls

ULPDT Examples—Annual Granularity

SC ID	Resource ID	Configuration ID	Use Limit Type	Granularity	Effective Start Date	Effective End Date	Limitation Number
Resource with a static, Annual Limitation that begins in January every year							
SC_A	RES_B		START	ANNUALLY	1/1/18	12/31/18	300
SC_A	RES_B		START	ANNUALLY	1/1/19	12/31/19	300
Resource with a dynamic, Annual Limitation that begins in January every year (e.g. changes in storage capability)							
SC_A	RES_B		START	ANNUALLY	1/1/18	12/31/18	300
SC_A	RES_B		START	ANNUALLY	1/1/19	12/31/19	
Resource with a static, Annual Limitation that begins in March every year							
SC_A	RES_C		START	ANNUALLY	3/1/17	2/28/18	300
SC_A	RES_C		START	ANNUALLY	3/1/18	2/28/19	300
SC_A	RES_C		START	ANNUALLY	3/1/19	2/28/20	300

Effective date examples apply to ROLL_12 submissions as well

ULPDT Examples—Annual Granularity (MSGs)

SC ID	Resource ID	Configuration ID	Use Limit Type	Granularity	Effective Start Date	Effective End Date	Limitation Number
MSG with a static, Annual Limitation on the plant that begins in January every year							
SC_A	RES_A		START	ANNUALLY	1/1/18	12/31/18	300
SC_A	RES_A		START	ANNUALLY	1/1/19	12/31/19	300
MSG with a static, Annual Limitation on the 3rd configuration that begins in January every year							
SC_A	RES_A	CONFIG_3	START	ANNUALLY	1/1/18	12/31/18	50
SC_A	RES_A	CONFIG_3	START	ANNUALLY	1/1/19	12/31/19	50
MSG with a static Annual Limitation on the plant and configuration limitation on the 3rd configuration that begin in January every year							
SC_A	RES_A		START	ANNUALLY	1/1/18	12/31/18	300
SC_A	RES_A	CONFIG_3	START	ANNUALLY	1/1/18	12/31/18	50
SC_A	RES_A		START	ANNUALLY	1/1/19	12/31/20	300
SC_A	RES_A	CONFIG_3	START	ANNUALLY	1/1/19	12/31/20	50

Effective date examples apply to ROLL_12 submissions as well

ULPDT Examples—Monthly Granularity

SC ID	Resource ID	Configuration ID	Use Limit Type	Granularity	Effective Start Date	Effective End Date	Limitation Number
Resource with a static, Monthly Limitation							
SC_A	RES_B		START	MONTHLY	1/1/18	12/31/18	50
SC_A	RES_B		START	MONTHLY	1/1/19	12/31/19	50
Resource with a dynamic, Monthly Limitation (e.g. changes in storage capability)							
SC_A	RES_B		START	MONTHLY	1/1/18	1/31/18	50
SC_A	RES_B		START	MONTHLY	2/1/18	2/28/18	40
SC_A	RES_B		START	MONTHLY	3/1/18	3/31/18	30
SC_A	RES_B		START	MONTHLY	4/1/18	4/30/18	20
SC_A	RES_B		START	MONTHLY	5/1/18	5/31/18	20
SC_A	RES_B		START	MONTHLY	6/1/18	6/30/18	30
SC_A	RES_B		START	MONTHLY	7/1/18	7/31/18	30
SC_A	RES_B		START	MONTHLY	8/1/18	8/31/18	20
SC_A	RES_B		START	MONTHLY	9/1/18	9/30/18	20
SC_A	RES_B		START	MONTHLY	10/1/18	10/31/18	30
SC_A	RES_B		START	MONTHLY	11/1/18	11/30/18	40
SC_A	RES_B		START	MONTHLY	12/1/18	12/31/18	40
SC_A	RES_B		START	MONTHLY	1/1/19	1/31/19	50
SC_A	RES_B		START	MONTHLY	2/1/19	2/28/19	40
SC_A	RES_B		START	MONTHLY	3/1/19	3/31/19	30
SC_A	RES_B		START	MONTHLY	4/1/19	4/30/19	20
SC_A	RES_B		START	MONTHLY	5/1/19	5/31/19	20
SC_A	RES_B		START	MONTHLY	6/1/19	6/30/19	30
SC_A	RES_B		START	MONTHLY	7/1/19	7/31/19	30
SC_A	RES_B		START	MONTHLY	8/1/19	8/31/19	20
SC_A	RES_B		START	MONTHLY	9/1/19	9/30/19	20
SC_A	RES_B		START	MONTHLY	10/1/19	10/31/19	30
SC_A	RES_B		START	MONTHLY	11/1/19	11/30/19	40
SC_A	RES_B		START	MONTHLY	12/1/19	12/31/19	40

ULPDT Examples—Monthly Granularity (MSGs)

SC ID	Resource ID	Configuration ID	Use Limit Type	Granularity	Effective Start Date	Effective End Date	Limitation Number
MSG with a static, Monthly Limitation on the plant							
SC_A	RES_A		START	MONTHLY	1/1/18	12/31/18	50
SC_A	RES_A		START	MONTHLY	1/1/19	12/31/19	50
MSG with a static, Monthly Limitation on the 3rd configuration							
SC_A	RES_A	CONFIG_3	START	MONTHLY	1/1/18	12/31/18	50
SC_A	RES_A	CONFIG_3	START	MONTHLY	1/1/19	12/31/19	50
MSG with a static Monthly Limitation on the plant and configuration limitation on the 3rd configuration							
SC_A	RES_A		START	MONTHLY	1/1/18	12/31/18	50
SC_A	RES_A	CONFIG_3	START	MONTHLY	1/1/18	12/31/18	10
SC_A	RES_A		START	MONTHLY	1/1/19	12/31/20	50
SC_A	RES_A	CONFIG_3	START	MONTHLY	1/1/19	12/31/20	10

ULPDT Example—“Other” Granularity

SC ID	Resource ID	Configuration ID	Use Limit Type	Granularity	Effective Start Date	Effective End Date	Limitation Number
Resource with a static, Quarterly Limitation							
SC_A	RES_B		START	OTHER	1/1/18	3/31/18	300
SC_A	RES_B		START	OTHER	4/1/18	6/30/18	300
SC_A	RES_B		START	OTHER	7/1/18	9/30/18	300
SC_A	RES_B		START	OTHER	10/1/18	12/31/18	300
SC_A	RES_B		START	OTHER	1/1/19	3/31/19	300
SC_A	RES_B		START	OTHER	4/1/19	6/30/19	300
SC_A	RES_B		START	OTHER	7/1/19	9/30/19	300
SC_A	RES_B		START	OTHER	10/1/19	12/31/19	300

SUPPORTING DOCUMENTATION EXAMPLES

Use plan based on design limitations

Design considerations that satisfy the requirements of this Section are those from physical equipment limitations.

- Restrictions documented in Technical Standards (Guide 2.2.6)
- Restrictions documented in storage warranty (Guide 2.2.3)
- Limited storage capability with need to reserve inventory for native load (Guide 2.2.4)
- Performance criteria for Demand Response Resources established pursuant to programs or contracts approved by Local Regulatory Authorities (Guide 2.2.2 and 2.2.3)

Use plan based on environmental restrictions

- Environmental restrictions that satisfy the requirements of this Section are those imposed by regulatory bodies, legislation, or courts that could include:
 - Limits on emissions (Guide 2.2.1)
 - Water use restrictions (Guide 2.2.7)
- Excludes restrictions with soft caps that allow the resource to increase production above the soft caps through the purchase of additional compliance instruments.

Use plan based on qualifying contractual limitations

- Qualifying contractual limitations are those contained in long-term contracts that were:
 - Reviewed and approved or pending-approval by a Local Regulatory Authority on or before January 1, 2015
 - Evaluated by Local Regulatory Authority for overall cost-benefit of those contracts (including limitations)
 - Effective November 1, 2021, no longer eligible
- Contract limits that provide for higher payments when usage thresholds are exceeded do not qualify.

QUESTION & ANSWER